

1,2,4-BENZOTRIAZINE OXIDES AS  
RADIOSENSITIZERS AND SELECTIVE CYTOTOXIC AGENTS

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Abstract

10 A method of using 1,2,4-benzotriazine oxides,  
some of which are novel compounds, as radiosensitizers  
and selective cytotoxic agents is disclosed. These  
compounds are shown to specifically radiosensitize  
hypoxic tumor cells. Some are additionally disclosed  
to be useful as specific cytotoxic agents for these  
cells. They also show an unexpected ability to  
15 radiosensitize aerobic cells following or preceding a  
hypoxic incubation of the cells with the drug. This  
provides a basis for selective radiosensitization of  
tumors compared to normal cells. A novel method for  
preparing the 1,2,4- benzotriazine oxides is also  
disclosed.